

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT



To:

OKABE, Masao

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Chiyoda-ku, Yokyo 100-0005
Japan**

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing
(day/month/year)

09.12.03

Applicant's or agent's file reference

CFO17020WO

IMPORTANT NOTIFICATION

International application No.

PCT/JP 03/01568

International filing date (day/month/year)

14.02.03

Priority date (day/month/year)

18.02.02

Applicant

CANON KABUSHIKI KAISHA

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

**Commissioner of
the Patent Office**

Telephone No. +81-3-3581-1101 Ext. 3531

5H 8110

ATTENTIONS

1. Demand for copy of documents

Copy of the documents described in the international preliminary examination report and not described in the international search report.

An applicant can request the copy of these cited documents to the Japan Patent Office, however, Japan Patent Information Organization also services sales of the copy of these cited documents. Those who request copying of the cited documents should pay attention to the following points.

[Application Method]

(1) As for Patent (Utility Model, Design) Gazette, the following points shall be defined clearly.

- ☐ Types of patent, utility model, and design
- ☐ Fiscal year and number of publication of application or publication of unexamined application (or patent number, registration number)
- ☐ Necessary number of paper sheets

(2) As for documents except for the gazette, the following points are required attention.

- ☐ Be sure to attach the copy of the international preliminary examination report (which shall be returned).

[Application and Reference]

〒135-0016

4-1-7 Toyo Koto-ku, Tokyo
Sato Daiya Building
Foundation of Japan Patent Information Organization
Information Processing Department
Copy Service section
TEL: 03-3508-2313

Note) The period for requesting the copy of the documents to Japanese Patent Office is set to 7 years from the international application date.

2. It is necessary to submit the copy of international application (except for cases of already transmitted from the International Bureau) and its prescribed translation, and to pay the national fee. Respective countries set different periods so as to be required attention. (See Treaty Article 22, Article 39, and Article 64 (2) (a) (i))

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CFO17020WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP 03/ 01568	International filing date (day/month/year) 14.02.03	Priority date (day/month/year) 18.02.02
International Patent Classification (IPC) or national classification and IPC Int.Cl ⁷ H04N1/00, B41J29/38, G03G21/00		
Applicant CANON KABUSHIKI KAISHA		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u> 4 </u> sheets, including this cover sheet. <input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of <u> 9 </u> sheets.
3.	This report contains indications relating to the following items: <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand <div style="text-align: center; font-weight: bold;">25.08.03</div>	Date of completion of this report <div style="text-align: center; font-weight: bold;">25.11.03</div>
Name and mailing address of the IPEA/JP <div style="text-align: center; font-weight: bold;">Japan Patent Office</div> 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer <div style="text-align: center; font-weight: bold;">Seiji Teshima</div> <div style="text-align: center;"> </div> Telephone No. +81-3-3581-1101 Ext. 3531

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/01568

I. Basis of the report**1. With regard to the elements of the international application:***

- ☐ the international application as originally filed
- ☒ the description:
pages 1-44 , as originally filed
pages _____ , filed with the demand
pages _____ , filed with the letter of _____
- ☒ the claims:
Nos. 1-8, 11, 12, 14, 15, 17 , as originally filed
Nos. 9, 10, 13, 16, 18 , as amended (together with any statement) under Article 19
Nos. _____ , filed with the demand
Nos. _____ , filed with the letter of _____
- ☒ the drawings:
~~sheets~~/fig 1-13 , as originally filed
sheets/fig _____ , filed with the demand
sheets/fig _____ , filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____ , as originally filed
pages _____ , filed with the demand
pages _____ , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/01568

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	<u>1-18</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-18</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-18</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

D1: JP 9-186802 A(Matsushita Graphic Communication Systems Inc.) 1997.7.15

D2: JP 7-129042 A(Canon KK.) 1995.5.19

D3: JP 8-104044 A(Canon KK.) 1996.4.23

Claims 1-18

The subject matter of claims 1-18 is neither disclosed in any of the documents D1,D2,D3 cited in the ISR nor obvious to a person skilled in the art.

Claims 1-9

The subject matter of claims 1-9 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes memory means for storing a power consumption standard for said each operation mode and operation time data for said each operation mode.

Claim 10

The subject matter of claim 10 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes calculation means for calculating power consumption of said image processing apparatus for each of the operation modes.

Claim 11

The subject matter of claim 11 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes preparation means for preparing information concerning power consumption of the predetermined operation mode based on a value timed by the timing means.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/01568

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V. 2 .

Claims 12,15,17

The subject matter of claims 12,15,17 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the steps of:
reading out power consumption data for each operation mode and operation time data for each operation mode;
preparing statistic information concerning power consumption of said image processing apparatus based on the read out power consumption data for each operation mode and the read out operation time data for each operation mode.

Claims 13,16,18

The subject matter of claims 13,16,18 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the step of calculating power consumption of the image processing apparatus for each of the operation modes.

Claim 14

The subject matter of claim 14 is considered to involve an inventive step over the documents cited in the ISR.

None of the prior art documents cited in the ISR describes the step of preparing information concerning power consumption of the predetermined operation mode based on a value timed by said timing step.

Date: July 17, 2003

World Intellectual Property Organization
PCT Division
34 Chemin des Colombettes
1211 Geneva 20
Switzerland

Amendment of the claims under Article 19(1) (Rule 46)

International Application No. : PCT/JP03/01568
International Filing Date : 14.02.03
Applicant : CANON KABUSHIKI KAISHA
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Applicant's or Agent's File Reference : CF017020WO

Dear Sir

The Applicant, who received the International Search Report relating to the above identified International Application transmitted on May 20, 2003, hereby files amendment under Article 19(1) as in the attached sheets.

page 2

International Appln. No. PCT/JP03/01568

1500130
DT04 Rec'd PCT/PTO 25 JUN 2004

The Applicant hereby amends claims 9, 10, 13, 16 and 18,
and retains claims 1 to 8, 11, 12, 14, 15 and 17 unchanged.

Very truly yours,

O K A B E
International Patent Office

Takao Ochi

Attachment:

(1) Amendment under Article 19(1)

1 sheet

REPLACED BY
ART 34 AADT

CLAIMS

1. An image processing apparatus having a plurality of operation modes including a first mode
5 for outputting image data read by image reading means and a second mode for outputting print data received from the outside, the image processing apparatus comprising:

memory means for storing a power consumption
10 standard for said each operation mode and operation time data for said each operation mode;

preparation means for preparing statistic information concerning power consumption of said image processing apparatus based on the power
15 consumption standard and the operation time data for said each operation mode; and

output means for performing an output based on the prepared statistic information concerning power consumption.

20

2. The image processing apparatus according to claim 1, further comprising timing means for timing operation time data of the respective operation modes individually,

25

wherein said preparation means prepares statistic information based on a value timed by said timing means and the power consumption standard for

each operation mode.

3. The image processing apparatus according to claim 2, further comprising management means for
5 managing user identification information by associating the user identification information with timing value by said timing means,

wherein said preparation means prepares statistic information based on the timed value, the
10 power consumption standard for each operation mode, and the user identification information.

4. The image processing apparatus according to claim 1,

15 wherein said timing means times operation time data from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job execution scheduling according to other operation modes.

20

5. The image processing apparatus according to claim 1,

wherein said output means sends the statistic information to a terminal apparatus external to said
25 image processing apparatus as a markup language.

6. The image processing apparatus according to

claim 1,

wherein the first mode is a copy mode and the second mode is a printer mode.

5 7. The image processing apparatus according to claim 1,

 wherein said output means outputs the prepared statistic information concerning power consumption to a display unit during designated processing for
10 designating the operation mode or during execution of the operation mode.

 8. The image processing apparatus according to claim 1 further comprising:

15 specifying means for specifying a user or a using department which uses said image processing apparatus; and

 timing means for timing an operation time of said image processing apparatus by associating the
20 operation time with the specified user or using department;

 wherein said memory means stores the timed operation time as the operation time data, and said preparation means prepares the statistic information
25 for each user or using department.

 9. An information processing apparatus which is

capable of communicating with a plurality of composite machines; comprising:

receiving means for receiving information concerning power consumption based on an operation
5 time for each operation mode which is timed in said composite machines, respectively; and

output means for outputting statistic information concerning power consumption based on the information received by said receiving means.

10

10. An image forming system which includes an image processing apparatus having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second
15 mode for outputting print data received from the outside, and an external apparatus communicating with the image processing apparatus, comprising:

memory means for storing a power consumption standard for said each operation mode and operation
20 time data for said each operation mode;

preparation means for preparing statistic information concerning power consumption of said image processing apparatus based on the power consumption standard and the operation time data for
25 each operation mode; and

output means for performing an output based on the prepared statistic information concerning power

consumption.

11. An image processing apparatus having a plurality of operation modes, comprising:

5 timing means for timing operation time data from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job execution scheduling according to other operation modes; and

10 preparation means for preparing information concerning power consumption of the predetermined operation mode based on a value timed by the timing means.

15 12. An information output method for outputting information concerning power consumption in an image processing apparatus having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second mode
20 for outputting print data received from the outside, the information output method comprising the steps of:

 reading out power consumption data for said each operation mode and operation time data for said
25 each operation mode;

 preparing statistic information concerning power consumption of said image processing apparatus

based on the read out power consumption data for each operation mode and the read out operation time data for each operation mode; and

performing an output based on the prepared
5 statistic information concerning power consumption.

13. An information output method by information processing apparatus capable of communicating with a plurality of composite machines, comprising the steps
10 of:

receiving information concerning power consumption based on an operation time for each operation mode which is timed in said composite machines, respectively; and

15 outputting statistic information concerning power consumption based on the information received in said receiving step.

14. An information output method by an image
20 processing apparatus having a plurality of operation modes, comprising the steps of:

timing operation time data from a start to an end of a predetermined operation mode as an intermittent operation time corresponding to job
25 execution scheduling according to other operation modes; and

preparing information concerning power

consumption of the predetermined operation mode based on a value timed by said timing step.

15. A program which is executed by an
5 information processing apparatus for outputting
information concerning power consumption in an image
processing apparatus having a plurality of operation
modes including a first mode for outputting image
data read by image reading means and a second mode
10 for outputting print data received from the outside,
the program comprising the steps of:
- reading out power consumption data for each
operation mode and operation time data for each
operation mode;
 - 15 preparing statistic information concerning
power consumption of said image processing apparatus
based on the read out power consumption data for said
each operation mode and the read out operation time
data for said each operation mode; and
 - 20 performing an output based on the prepared
statistic information concerning power consumption.

16. A program which is executed by an
information processing apparatus capable of
25 communicating with a plurality of composite machines,
comprising the steps of:

receiving information concerning power

consumption based on an operation time for each operation mode which is timed in said composite machines, respectively; and

outputting statistic information concerning
5 power consumption based on the information received in said receiving step.

17. A computer readable storage medium having stored therein a program which is executed by an
10 information processing apparatus for outputting information concerning power consumption in an image processing apparatus having a plurality of operation modes including a first mode for outputting image data read by image reading means and a second mode
15 for outputting print data received from the outside, the a program comprising the steps of:

reading out power consumption data for said each operation mode and operation time data for said each operation mode;

20 preparing statistic information concerning power consumption of said image processing apparatus based on the read out power consumption data for each operation mode and the read out operation time data for each operation mode; and

25 performing an output based on the prepared statistic information concerning power consumption.

18. A computer readable storage medium having stored therein a program which is executed by an information processing apparatus capable of communicating with a plurality of composite machines,
5 the program comprising the steps of:

receiving information concerning power consumption based on an operation time for each operation mode which is timed in said composite machines, respectively; and

10 outputting statistic information concerning power consumption based on the information received in said receiving step.